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From the INTERNATIONAL SEARCHING AUTHORITY

To:
HONEYWELL INTERNATIONAL INC.
Attn. Criss, Roger H.
101 Columbia Road
P.O. Box 2245
Morristown, New Jersey 07960
MOITISCOWII, New Delbey 07300

1004 JAN -8 A 9 17 NOTIFICATION OF TRANSMITTAL OF CENTRALENTIONAL SEARCH REPORT OR THE DECLARATION

101 Columbia Road	ON THE BEGEN WHOM			
P.O. Box 2245 Morristown, New Jersey 07960	(PCT Rule 44.1)			
UNITED STATES OF AMERICA				
	Date of mailing (day/month/year) 02/01/2004			
Applicant's or agent's file reference				
но002670	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date			
PCT/US 02/39821	(day/month/year) 13/12/2002			
Applicant				
WONDING I INTERNATIONAL INC				
HONEYWELL INTERNATIONAL INC.				

1.	x	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):
		When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
		Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35
		For more detailed instructions, see the notes on the accompanying sheet.
2.		The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
		no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Furt	ther action(s): The applicant is reminded of the following:
	lf i	rity after 18 months from the priority date, the international application will be published by the International Bureau. the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the iority claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the ompletion of the technical preparations for international publication.
	Witt	nin 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant ishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).
	he	hin 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase efore all designated Offices which have not been elected in the demand or in a later election within 19 months from the diority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Authorized officer

Isabelle Porrachia

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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international poulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

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NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.					
н0002670		(Earliest) Priority Date (day/month/year)					
International application No.	International filing date (day/month/year)						
PCT/US 02/39821	13/12/2002	27/12/2001					
Applicant							
HONEYWELL INTERNATIONAL	INC.						
according to Article 18. A copy is being	een prepared by this International Searching Autransmitted to the International Bureau.	thority and is transmitted to the applicant					
It is also accompanied	by a copy of each prior art document cited in thi	s report.					
1. Basis of the report							
 a. With regard to the language, the language in which it was filed, to 	ne international search was carried out on the baunless otherwise indicated under this item.	asis of the international application in the					
Authority (Rule 23.1(b)							
b. With regard to any nucleotide was carried out on the basis of	and/or amino acid sequence disclosed in the the sequence listing:	international application, the international search					
contained in the interna	ational application in written form.						
filed together with the i	nternational application in computer readable fo	rm.					
	furnished subsequently to this Authority in written form.						
furnished subsequently to this Authority in computer readble form.							
international application	subsequently furnished written sequence listing n as filed has been furnished.						
the statement that the furnished	information recorded in computer readable form	is identical to the written sequence listing has been					
2. Certain claims were f	ound unsearchable (See Box I).						
3. Unity of invention is							
4. With regard to the title,							
l 1—-	submitted by the applicant.						
the text has been esta	blished by this Authority to read as follows:						
5. With regard to the abstract,							
the text has been esta	s submitted by the applicant. blished, according to Rule 38.2(b), by this Author the date of mailing of this international search i	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.					
6. The figure of the drawings to be p	published with the abstract is Figure No.	1					
X as suggested by the a		None of the figures.					
	failed to suggest a figure.						
	tter characterizes the invention.						

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/39821

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01S5/183

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H01S} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Citation of document, with indication, where appropriate, of the relevant passages	Rele	vant to claim No.			
EP 1 182 756 A (FURUKAWA ELECTRIC CO LTD) 27 February 2002 (2002-02-27) paragraph '0069!; figure 13	1-3	,6,8			
WO 00 33433 A (BRAUN WOLFGANG ;DOWD PHILIP (SG); UNIV ARIZONA (US); ZHANG YONG HA) 8 June 2000 (2000-06-08) page 19, line 20; figures 13A-13C page 11, line 26	1,2				
US 5 960 018 A (JEWELL JACK L ET AL) 28 September 1999 (1999-09-28) column 32 -column 34; claims 15-17; figures 8,9A	1				
_/					
	EP 1 182 756 A (FURUKAWA ELECTRIC CO LTD) 27 February 2002 (2002-02-27) paragraph '0069!; figure 13 W0 00 33433 A (BRAUN WOLFGANG; DOWD PHILIP (SG); UNIV ARIZONA (US); ZHANG YONG HA) 8 June 2000 (2000-06-08) page 19, line 20; figures 13A-13C page 11, line 26 US 5 960 018 A (JEWELL JACK L ET AL) 28 September 1999 (1999-09-28) column 32 -column 34; claims 15-17;	Citation of document, with indication, where appropriate, of the relevant passages EP 1 182 756 A (FURUKAWA ELECTRIC CO LTD) 27 February 2002 (2002–02–27) paragraph '0069!; figure 13 W0 00 33433 A (BRAUN WOLFGANG; DOWD PHILIP (SG); UNIV ARIZONA (US); ZHANG YONG HA) 8 June 2000 (2000–06–08) page 19, line 20; figures 13A–13C page 11, line 26 US 5 960 018 A (JEWELL JACK L ET AL) 28 September 1999 (1999–09–28) column 32 -column 34; claims 15–17; figures 8,9A			

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
17 December 2003	02/01/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tol. (23 70) 240-2440 TV 31 651 end ni	Authorized officer

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/39821

ategory ° Cita	SHIMIZU H ET A 1.26-MUM GAINA IEEE JOURNAL O	L: "HIGH-PERFORMAI SSB-SQW RIDGE LASE F SELECTED TOPICS	NCE CW	ļ	Relevant to claim No).
	SHIMIZU H ET A 1.26-MUM GAINA IEEE JOURNAL O	L: "HIGH-PERFORMAI SSB-SQW RIDGE LASE F SELECTED TOPICS	NCE CW			
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	vol. 7, no. 2, 355-364, XP001 ISSN: 1077-260 the whole docu					
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INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/US 02/39821

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1182756	A	27-02-2002	JP CA EP US	2002118329 A 2354420 A1 1182756 A2 2002034203 A1	19-04-2002 31-01-2002 27-02-2002 21-03-2002
WO 0033433	Α	08-06-2000	EP JP WO US	1145395 A2 2002531959 T 0033433 A2 6566688 B1	17-10-2001 24-09-2002 08-06-2000 20-05-2003
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